

Please amend the application as follows:

IN THE CLAIMS

Sub 1. A golf ball comprising:

a one-piece core made of a mixture of compound components comprising:

a polybutadiene rubber having a cis content of 92% or greater; and,

C1 a heavy weight filler having a specific gravity equal to or greater than about 5.6, wherein the heavy weight filler comprises no more than about 1.95% volume of the core and, the heavy weight filler is selected from the group consisting of tungsten, bismuth, copper, bismuth oxide, nickel, cobalt, iron, steel, tin, chromium, bismuth subcarbonate, cupric oxide, barium tungstate, cuprous oxide, and mixtures thereof; and, a cover layer disposed upon the core.

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3. A three-piece wound golf ball comprising:

a one-piece center made of a mixture of compound components comprising:

a polybutadiene rubber having a cis content of 92% or greater; and,

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a heavy weight filler having a specific gravity of at least about 5.6, wherein the heavy weight filler comprises no more than about 1.95% volume of the center, and the heavy weight filler is selected from the group consisting of tungsten, bismuth, copper, bismuth oxide, nickel, cobalt, iron, steel, tin, chromium, bismuth subcarbonate, cupric oxide, barium tungstate, cuprous oxide, and mixtures thereof;

a thread winding layer disposed upon the core wherein the thread layer comprises rubber; and,

a cover layer disposed upon the thread winding layer.

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5. The golf ball of claim 1 wherein the heavy weight filler is selected from the group consisting of bismuth, bismuth oxide, cobalt, iron, steel, tin, chromium, bismuth subcarbonate, ferrous oxide and mixtures thereof.

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7. A method of making a golf ball center comprising the steps of:
- selecting a heavy weight filler having a specific gravity of at least about 5.6;
 - mixing the filler with a polybutadiene rubber, a rubber vulcanizing ingredient and core regrind, wherein the heavy weight filler comprises no more than about 1.95% volume of the center;
 - producing a plug;
 - curing the plug in a mold to form the center, wherein the center formed from the plug has a PGA compression lower than 89.3 and a coefficient of restitution higher than .697.

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12. A golf ball solid center comprising:
- a compound wherein the compound comprises polybutadiene rubber having a cis content of 92% or greater; and,
 - an inorganic filler having a specific gravity equal to or greater than about 5.6, mixed with the compound wherein the inorganic filler is selected from the group consisting of tungsten, bismuth, copper, bismuth oxide, nickel, cobalt, iron, steel, tin, chromium, bismuth subcarbonate, cupric oxide, barium tungstate, cuprous oxide, and mixtures thereof, wherein the heavy weight filler comprises no more than about 1.95% volume of the center.

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28. A golf ball comprising:

a one-piece core wherein the core has a PGA compression lower than 95.7 and a coefficient of restitution higher than .695, and wherein the core is made of a mixture of compound components comprising:

a polybutadiene rubber having a cis content of 92% or greater; and,

a heavy weight filler having a specific gravity equal to or greater than about 5.6, wherein the heavy weight filler comprises no more than about 1.95% volume of the core;

a cover layer disposed upon the core wherein the golf ball produced with the heavy weight filler results in a PGA compression lower than 103.6.

29. A three piece wound golf ball comprising:

a one-piece center wherein the center has a PGA compression lower than 95.7 and a coefficient of restitution higher than .695 made of a mixture of compound components comprising:

a polybutadiene rubber having a cis content of 92% or greater; and,

a heavy weight filler having a specific gravity equal to or greater than about 5.6, wherein the heavy weight filler comprises no more than about 1.95% volume of the center;

a thread winding layer disposed upon the center wherein the thread layer comprises rubber forming a core; and,

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a cover layer disposed upon the core wherein the golf ball produced with the heavy weight filler results in a PGA compression lower than 103.6.

30. The golf ball of claim 28 wherein the heavy weight filler is selected from the group consisting of tungsten, bismuth, copper, bismuth oxide, nickel, cobalt, iron, steel, tin, chromium, bismuth subcarbonate, cupric oxide, barium tungstate, cuprous oxide, and mixtures thereof.